



U.S. DEPARTMENT OF **ENERGY**

Paducah Gaseous Diffusion Plant Deactivation Task Order Post-GDP Shutdown Environmental Services

April 30, 2013



***E**_M Environmental Management*

safety ♦ performance ♦ cleanup ♦ closure

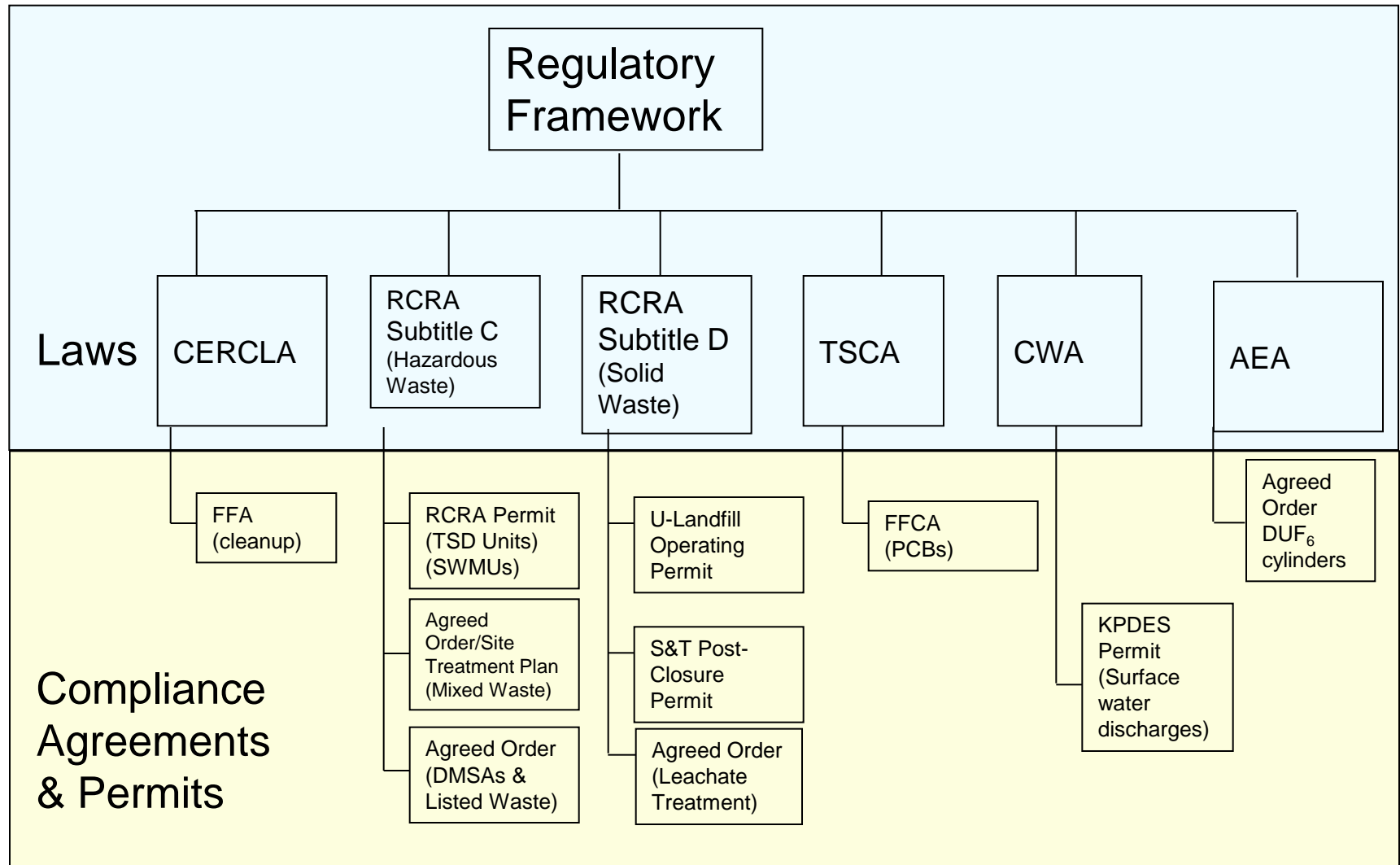
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Post-GDP Shutdown Environmental Services

C.1.6 and C.1.7 (Period 4)

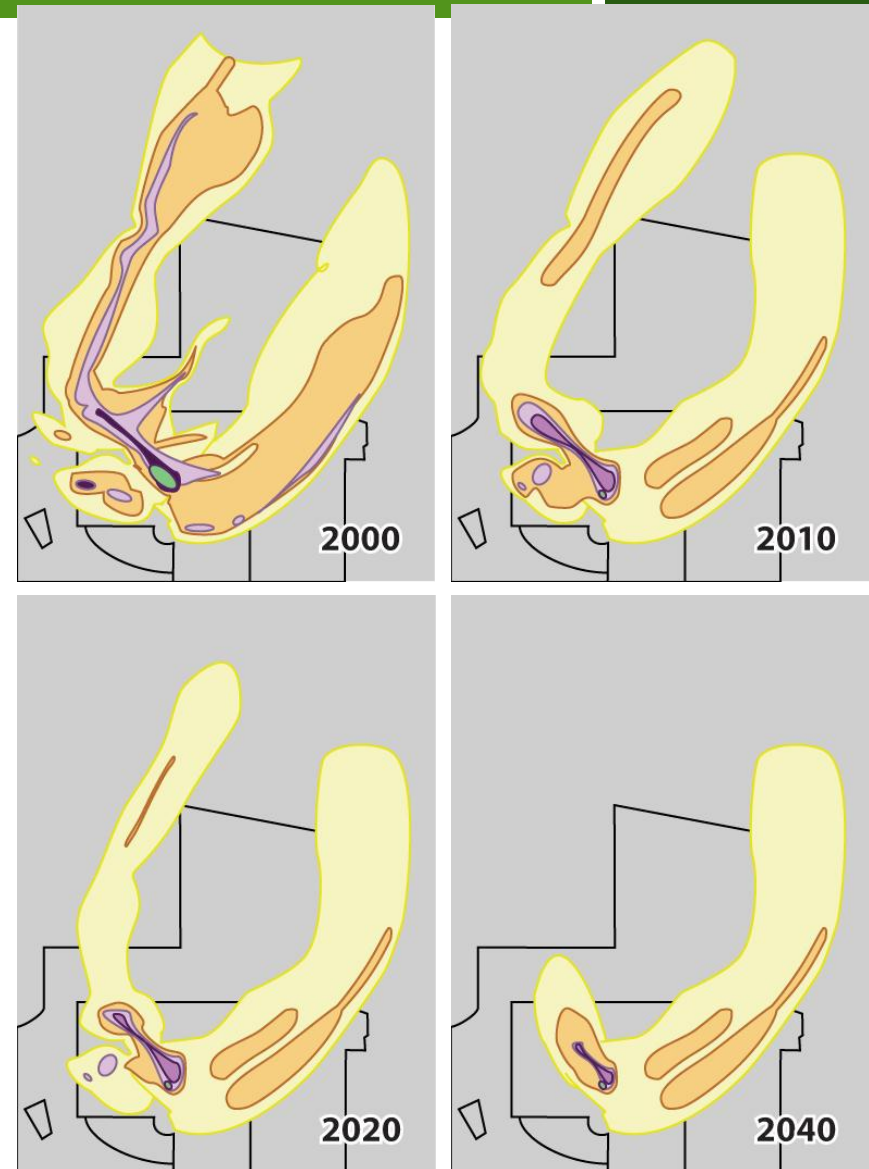
- Period commences 90 Days prior to the expiration of the Remediation Contract (C.1.7.1).
- The Deactivation Contractor will transition the responsibilities for any and all Post-GDP Shutdown Environmental Services.
 - Current Remediation Contract expires July 26, 2015.
 - Perform walkdowns of Remediation Contractor facilities.
 - Perform due diligence and evaluation of regulatory compliance.
 - Assess programmatic and operational documents and procedures, and validation of FIMS data.
 - Re-assign/transfer all permits, or other site documents, as applicable.
- Services previously provided by the Remediation Contractor (such as landfill operations, environmental monitoring and reporting) will become the responsibility of the Deactivation Contractor upon transition.

Regulatory Framework



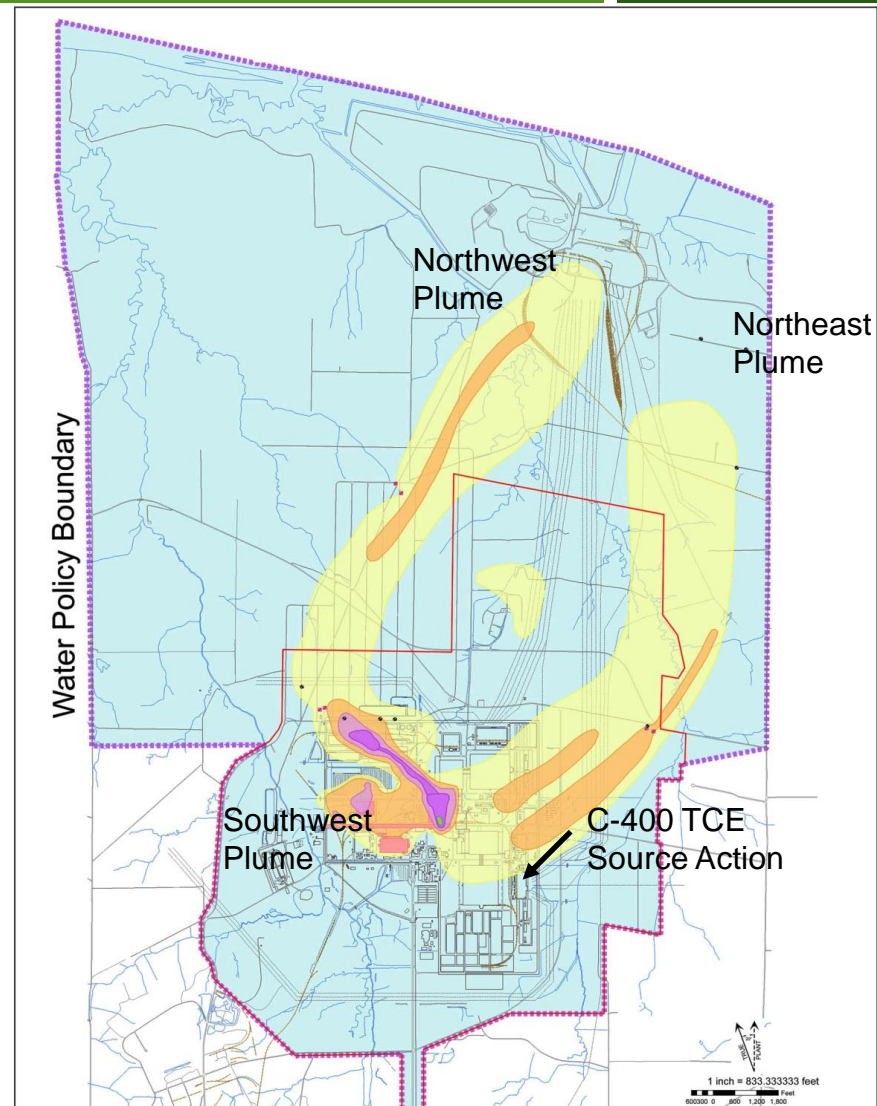
Post-GDP Shutdown Groundwater Sources OU – C.1.7.2

- Operate and maintain the two installed groundwater pump-and-treat facilities.
- Sample and monitor the three groundwater plumes, and conduct analyses to determine the effectiveness of and the need for continued operation of the pump-and-treat systems.
- Continue and complete any ongoing pump-and-treat optimization activities (e.g., Northeast Plume Optimization) as part of the site's overall groundwater strategy.
- Prepare an updated TCE and ^{99}Tc plume map with current data every two years.



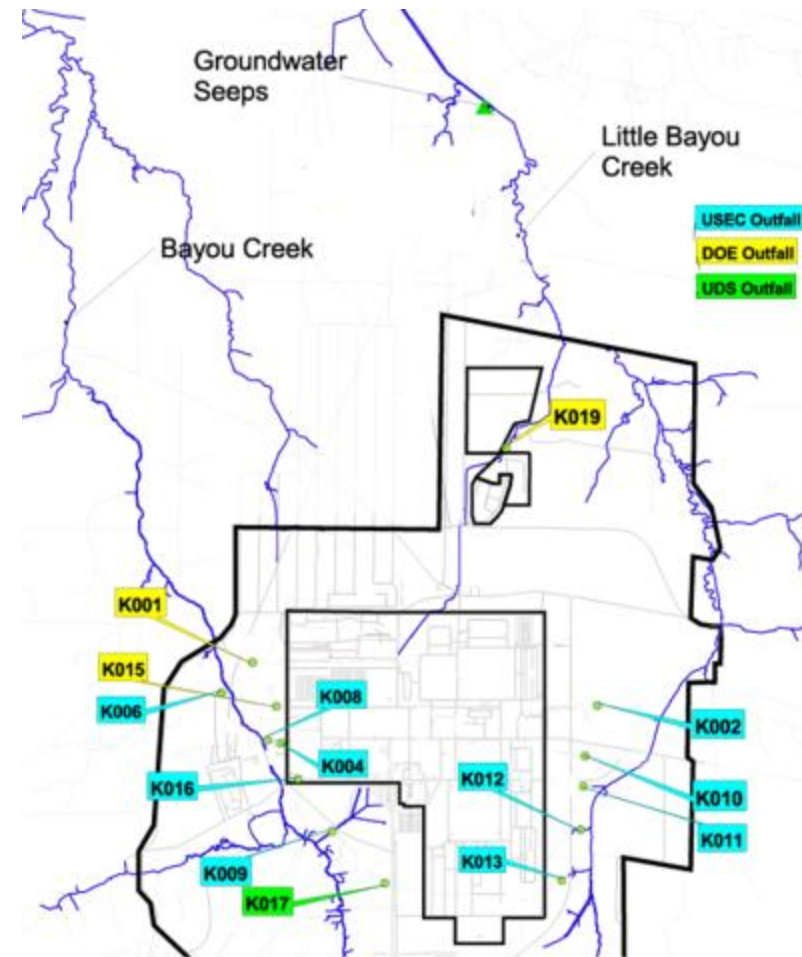
Post-GDP Shutdown Groundwater Sources OU – C.1.7.2

- Complete the ongoing remediation of the C-400 sources, including operation of the treatment system, shutdown and removal of the treatment system, development and submittal of all regulatory documents and reports, demobilization, site restoration and compliant waste disposal.
- Complete the ongoing remediation of the Southwest Plume Sources, including operation of the treatment system/implementation of the remedy, shut-down and removal of the treatment system, development and submittal of all regulatory documents and reports, demobilization, site restoration and compliance waste disposal.



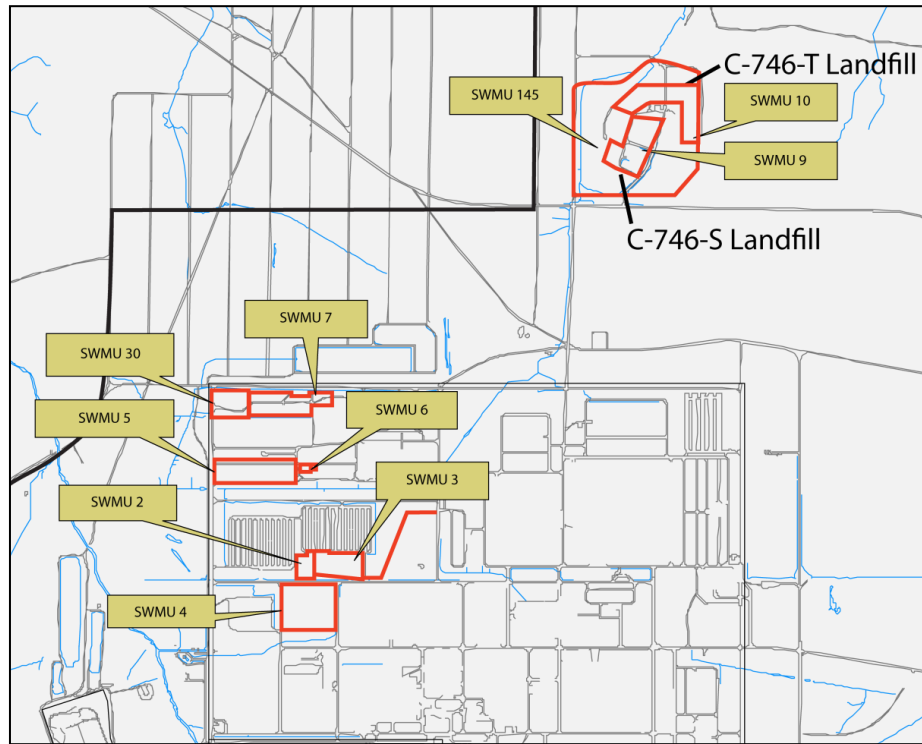
Post-GDP Shutdown Soils and Surface Water OU – C.1.7.3

- Perform all activities necessary to meet the regulatory milestones specified in the FFA Site Management Plan; including the development and submittal of regulatory documents, any required field work, site restoration/demobilization.



Post-GDP Shutdown

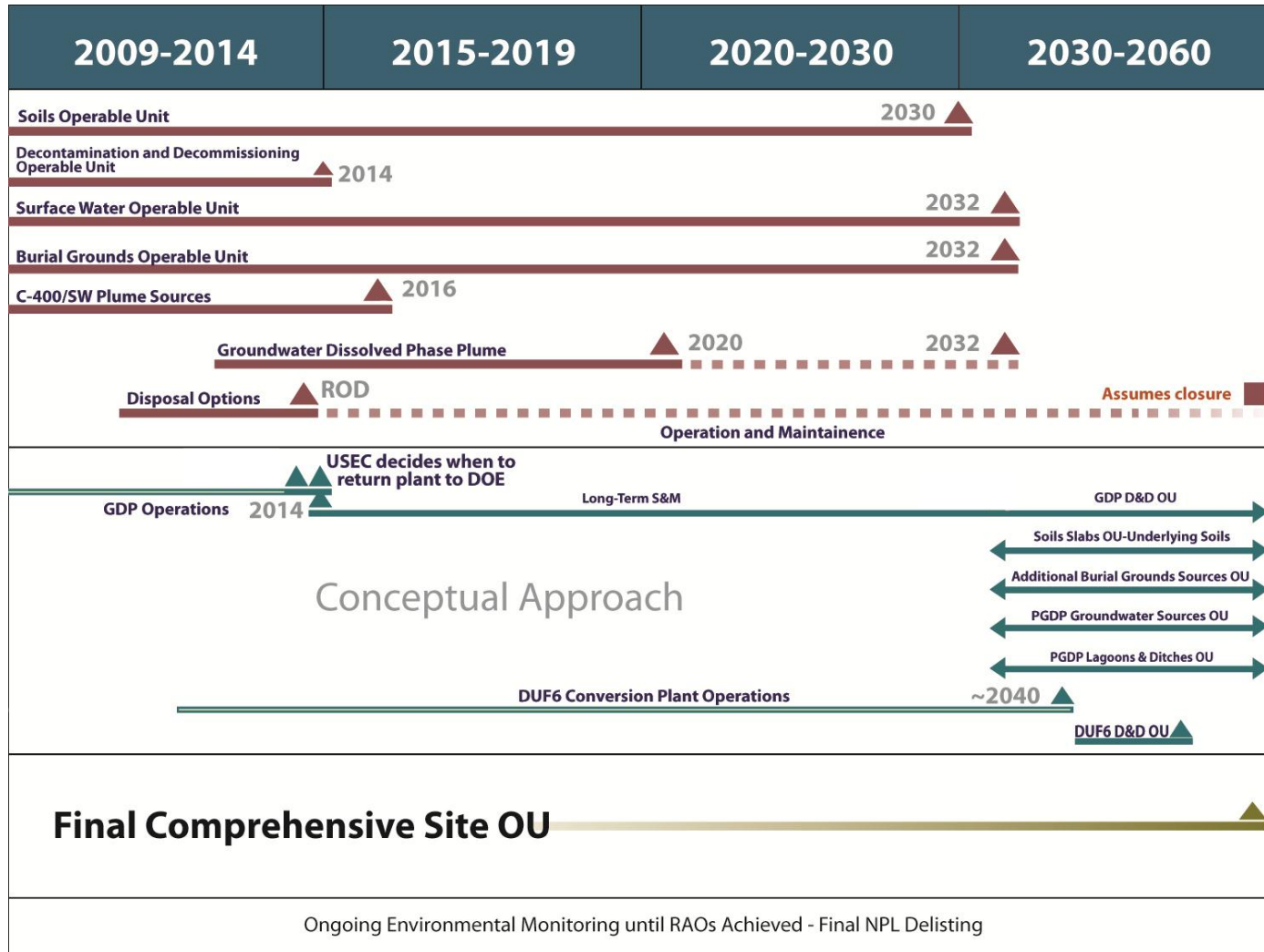
Burial Grounds Operable Unit – C.1.7.4



- Prepare all CERCLA documents supporting the remediation of the burial grounds including Feasibility Studies, Proposed Plans, Records of Decision, and all subsequent CERCLA documents needed to implement the selected remedial action, and actively assist in obtaining regulatory approval.
- Complete 100% of the Subtitle D capping action for SWMUs 5 and 6 compliant with the applicable CERCLA Decision Documents, if selected as the remedial alternative.
- Compliantly dispose of all wastes excavated or generated up to 90 days prior to the completion of the Task Order period.



Conceptual Site Management Plan Schedule



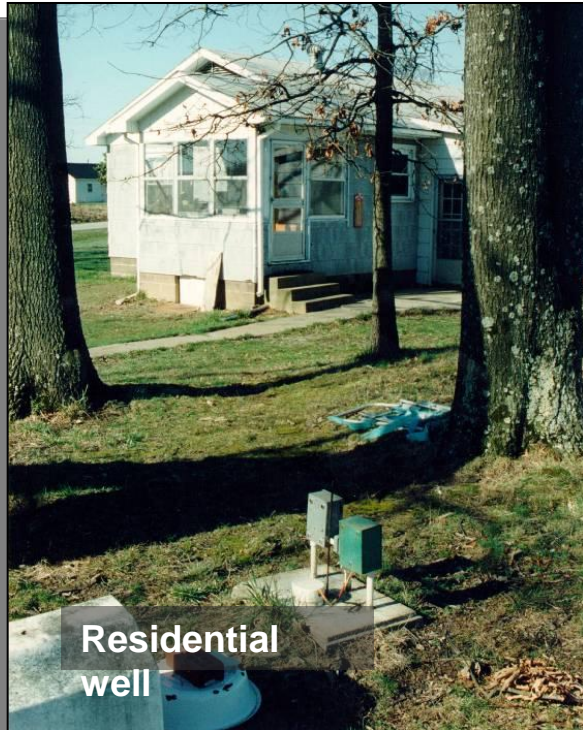
Environmental Monitoring and Reporting – C.1.7.5

- Perform all environmental monitoring tasks such as:
 - Monitor and maintain the structural integrity of the groundwater monitoring wells (currently estimated at 356)
 - Sampling and maintaining outfalls
 - Sampling Seeps
 - Performing in-stream surface water locations
 - Collecting sediment from monitoring locations
 - Managing environmental thermoluminescent dosimeter (TLD) monitoring at an estimated 40 locations
 - Sampling aquatic and other biota
 - Performing landfill surface water and leachate monitoring
 - Performing ambient air monitoring
 - Conduct monthly inspections of C-746-K and C-404 burial ground caps, and provide corrective maintenance as required.

Surface water sampling



Environmental Monitoring and Reporting (Cont.) – C.1.7.5



- Execute the Water Policy (interim control measure) to include management of license agreements (an estimated 101) with local residents and businesses to supply municipal water and license agreements (an estimated 2) to allow DOE to access and sample off-site monitoring and residential wells.
- Maintain the license agreement with Kentucky Fish and Wildlife for management of the approximately 1,986 acres of DOE property not in the industrialized portion or buffer area of the plant.
- Operate and maintain the Oak Ridge Environmental Information System (OREIS), Geographical Information System (GIS), Paducah Project Environmental Measurement System (Paducah PEMS), and Paducah Data Warehouse that is not OUO that is accessible by the public.
- Perform sitewide environmental regulatory management for all site-wide permits, permit applications, and reports; site-wide NEPA documents; site-wide environmental reports, etc.
- Administer the site program, and provide required environmental information to support regulatory compliance, and responsible for compliance in areas under its cognizance, including NEPA.



Environmental Services Waste Operations— C.1.7.6



- Manage, characterize, process, package, and dispose of all Environmental Services waste as specified in this Task Order.
- Operate and maintain the identified waste storage facilities to the extent required to support the Contractor's work scope.
- Operate and maintain the three landfills (C-746-U, C-746-S, and C-746-T) in accordance with Kentucky regulations, DOE requirements (e.g., authorized limits), closure and post-closure requirements, and the operating permit.



Waste Disposal Alternatives (Potential On-Site Waste Disposal Facility) – C.1.6

- Assume responsibility for any and all OSWDF approvals, design, and construction, if selected as the preferred alternative for waste disposition through a ROD.
- Complete the necessary designs and sequence the construction of an OSWDF.
- Implement field activities in accordance with the ROD to support all waste disposal activities associated with the OSWDF and other projects as required.
- Complete all critical decision documents and comply with all requirements for capital asset projects as required by DOE O 413.3B.

